

**Modular Timemasking Sequence Programming For Imaging System****Abstract of the Disclosure**

5

A technique is described for programming multiple axes or channels of a system, such as an MRI system. Modular component time masks are defined including information for activity on at least one axis and a time boundary for execution of the activity. The modular components may be stored in a library, and assembled to define desired control sequences. Activity may include pulse sequences for coils in the imaging system. The modular components facilitate definition of complex multi-axis control sequences while respecting inherent physical constraints of the system. Time optimized control sequences may be developed from the modular components by reference to beginning and ending times of a series of components, or to anchor time points associated with the components.

10

15